

Western Electric Co., Incorporated,
Engineering Dept.,
New York.

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METHOD OF OPERATION

SIGNAL CIRCUIT

Fuse Alarm And - Auxiliary Busy Back Ground Alarm - Without Aisle Pilot Lamp With Secondary - Signals At Floor Alarm And Main Alarm Boards - Selector Frames - Full Mechanical Power Driven System.

GENERAL DESCRIPTION.

1. These circuits show the wiring and apparatus of the fuse alarm signal circuit for the selector frames. The circuits function when a fuse at the fuse board operates, lighting the fuse alarm lamps located on the fuse panel in the selector frames and giving secondary signals at the floor alarm and main alarm boards.

DETAILED DESCRIPTION.

24 Volt battery:

Figures 2 and 3.

2. When the fuse at the 24 volt battery bus bar operates, a circuit is closed through the 2G fuse alarm lamp, the 1-1/3 ampere fuse and the B9 relay (A) causing the lamp to light and the relay to operate. The operation of the B9 relay (A) closes a circuit which operates the E458 relay (A-1) which in turn closes a circuit to give secondary signals at the floor and main alarm boards. Should the interrupter or the busy back ground alarm circuit fuse operate, a circuit is closed from ground through the winding of the E458 relay (A-1) which operates and functions as described above. When the 1-1/3 ampere fuse operates the circuit through the fuse alarm lamp is opened and battery is connected through the 18-AD resistance to ground through the B9 relay (A), causing the relay to operate. The B9 relay (A) operated, functions as previously described.

48 Volt Battery, Figures 1 and 7.

3. When the fuse at the 48 volt battery bus bar operates, a circuit is closed to 24 volt battery through the 2G fuse alarm lamp in series with the B9 relay (A), lighting the lamp and operating the relay. The B9 relay (A) operated, functions as previously described.

48 Volt Battery, Figure 3.

4. When a fuse at the 48 volt battery bus bar operates, a circuit is closed through the 18-AD resistance, fuse alarm lamp, 1-1/3 ampere fuse, B9 relay (A-1) to ground. The lamp lights and the B9 relay (A-1) operates. The B9 relay (A-1) operated, functions as previously described.

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CIRCUIT REQUIREMENTS

	<u>OPERATE</u>	<u>NON-OPERATE</u>	<u>RELEASE</u>
B9 (A) and (A-1)	After a soak of approximately .3 amp. Test .063 amp. Readj. .054 amp.		After a soak of approximately .3 amp. Test .003 amp. Readj. .006 amp.
E458 (A-1) 24 Volt battery	Test .016 amp. Readj. .011 amp.		Test .0008 amp. Readj. .0015 amp.
48 Volt battery	Test .027 amp. Readj. .011 amp.		Test .0008 amp. Readj. .0015 amp.

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